Bangalore.* Newzen Consultants

NC/QC/YD/W1/NG-02/2017-18/G1

Date: 02-01-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Development and Improvements of roads and drains in Ward no-01 of Yelahanka Sub Division.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Lokesh. R.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	98.15	70-100
9.50	61.25	50-80
4.75	50.35	40-65
2.36	41.75	30-50
0.425	12.05	10-15
0.075	4.15	<5

*As Furnished by Client
The Results relate only to the items tested

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

Bangalore.* Newzen Consultants

Date: 02-01-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.36 %	Not more than 2.0 %
2.	Liquid Limit, %	17.25	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	7.12	---------
5.	Aggregate Impact Value, %	26.33S	Not more than 40.00 %

*As furnished by Client.
Note: The Results relate only to the items tested

AE-1

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Date: 06-01-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.38 %**	Not more than 2.0 %
2.	Liquid Limit, %	**19.50**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**5.60**	---------
5.	Aggregate Impact Value, %	**25.97S**	Not more than 40.00 %

*As furnished by Client.

Note: The Results relate only to the items tested

AE-1

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NC/QC/YD/W1/NG-02/2017-18/W7

Date: 26-01-2018

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Development and Improvements of roads and drains in Ward no-01 of Yelahanka Sub Division.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Lokesh. R.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.40	95-100
26.50	---	-
22.40	74.25	60-80
11.20	51.50	40-60
4.75	33.75	25-40
2.36	27.35	15-30
0.600	20.05	8-22
0.075	4.15	0-5

*As Furnished by Client

The Results relate only to the items tested

AE-1

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NC/QC/YD/W1/NG-02/2017-18/BD2

Date: 13-02-2018

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Development and Improvements of roads and drains in Ward no-01 of Yelahanka Sub Division.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Lokesh. R.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 :

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.0**	Min. 45
2.	Ductility Value at 25^0 C	**98 cm**	40
3.	Flash point	**238^0 C**	Minimum 220^0 C
4.	Softening point	**53.0^0 C**	Min. 47

*As furnished by Client.

The results relate only to the samples tested.

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Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

Bangalore. * Newzen Consultants

NC/QC/YD/W1/NG-02/2017-18/BC2

Date: 06-02-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Development and Improvements of roads and drains in Ward no-01 of Yelahanka Sub Division.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Lokesh. R.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	97.45	90-100
9.5	85.05	70-88
4.75	63.30	53-71
2.36	55.45	42-58
1.18	43.60	34-48
0.600	32.75	26-38
0.300	25.50	18-28
0.150	18.35	12-20
0.075	6.55	4-10

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/YD/W1/NG-02/2017-18/BC8 **Date: 16-03-2018**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Development and Improvements of roads and drains in Ward no-01 of Yelahanka Sub Division.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Lokesh. R.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.35**	90-100
9.5	**83.45**	70-88
4.75	**60.20**	53-71
2.36	**54.60**	42-58
1.18	**42.35**	34-48
0.600	**36.45**	26-38
0.300	**24.05**	18-28
0.150	**14.90**	12-20
0.075	**7.25**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

AE-1

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